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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,317	12/12/2003	Michael S. Ray	DP-311311	1368
22851 7590 10/15/2007 DELPHI TECHNOLOGIES, INC.			EXAMINER	
M/C 480-410-202			AN, SHAWN S	
PO BOX 5052 TROY, MI 480	07		ART UNIT	PAPER NUMBER
1101,1111100	07		2621	·
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/734,317	RAY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Shawn S. An	2621			
The MAILING DATE of this communication ap	opears on the cover sheet w	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING I extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become a	IICATION. a reply be timely filed  ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 2a) This action is <b>FINAL</b> . 2b) ☑ Th					
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
. closed in accordance with the practice under					
Disposition of Claims	,				
4) ⊠ Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7,9 and 10 is/are rejected. 7) ⊠ Claim(s) 8 is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on 12 December 2003 is.  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examin 11.	/are: a)⊠ accepted or b)[ e drawing(s) be held in abeya ction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the priority application from the International Bures.  * See the attached detailed Office action for a list	nts have been received.  nts have been received in lority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 3/18/05, 1/24/05.	Paper No	v Summary (PTO-413) D(s)/Mail Date Informal Patent Application			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Schofield et al (5,670,935).

**Regarding claim 1,** Schofield et al discloses an apparatus for displaying a video image of a scene in a travel path of a vehicle, comprising:

a video camera device (Fig. 1, 14, 16) and lens (inherency emphasized) for imaging a field of view including said travel path, the field of view including out-of-path objects that are out of the travel path as well as in-path objects that are in said travel path (see Fig. 1);

a video display device (Fig. 3, 20) for displaying the imaged field of view (42); and

means for providing a reticle on said video display device for visually delineating (Fig. 3, 50, 52) an in-path portion of the field of view in which said in-path objects are displayed (Fig. 3, 48) from an out-of-path portion of the field of view in which the out-of-path objects are displayed (Fig. 3, 44, 46; col. 5, lines 48-67; col. 6, lines 1-12).

**Regarding claim 2,** Schofield et al discloses the delineated in-path portion of the displayed field of view being conical or frustro-conical (48).

**Regarding claim 3,** Schofield et al discloses the delineated in-path portion of the displayed field of view is conical or frustro-conical (48), and said reticle includes one or more stadia lines (see also 48, lines indicating estimation of an object's range from

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the vehicle) traversing the in-path portion for aiding estimation of an object's range from the vehicle.

Regarding claim 6. Schofield et al discloses a series of successively receding stadia lines in the delineated in-path portion of the displayed field of view corresponding to successively longer ranges from said vehicle (48; shorter the receding line, longer the range).

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 3. obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schofield et al (5,670,935).

Regarding claim 4, Schofield et al discloses stadia lines having a width that corresponds to a width of the vehicle (48).

Therefore, it would have been considered obvious to modify stadia lines such that the stadia lines have a length that corresponds to a width of the vehicle just as long as the desired result is substantially the same.

Regarding claim 5, Schofield et al discloses the delineated in-path portion of the displayed field of view being wider than the length of the stadia lines (48).

5. Claims 7 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schofield et al (5,670,935) in view of Chin et al (5,673,143).

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Regarding claim 7, Schofield et al does not particularly disclose a reticle substrate disposed between the video camera device and the lens, and a reticle array formed on the reticle substrate such that the imaged and displayed field of view includes an image of the reticle array, the reticle being defined by such image of such reticle array.

However, Chin et al teaches an imaging device comprising a reticle substrate (aiming reticle) being used with the video camera (imaging) device and the lens, and a reticle array (stadia lines) formed on the reticle substrate such that the imaged and displayed field of view includes an image of the reticle array (dual set of stadia lines; one for use with the add-on telescopic lens), the reticle being defined by such image of such reticle array as an efficient means to estimate an object's range (col. 2, lines 32-54).

Therefore, it would have been considered obvious to a person of ordinary skill in the relevant art employing an apparatus for displaying a video image as taught by Schofield et al to incorporate the Chin's teachings as above so that the reticle substrate is disposed between the video camera device and the lens, and the reticle array is formed on the reticle substrate such that the imaged and displayed field of view includes an image of the reticle array, the reticle being defined by such image of such reticle array as an efficient means to estimate an object's range.

Regarding claim 9, Schofield et al discloses in-path portion of the displayed field of view being conical or frustro-conical (48), and the reticle includes one or more stadia lines (see also 48, lines indicating estimation of an object's range from the vehicle) traversing the conical or frustro-conical region for aiding estimation of an object's range from the vehicle.

**Regarding claim 10**, it is considered an obvious design choice for the reticle substrate to be a cover of said video camera device, since the reticle substrate is disposed between the video camera devise and the lens.

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# Allowable Subject Matter

6. Claim 8 is objected to as being dependent upon rejected base claim 1, but would be allowable:

if claim 8 is rewritten in independent form including all of the limitations of the base claim 1 and any intervening claims.

Dependent claim 8 recites novel features comprising the reticle substrate being optically transparent, and the reticle array including a conical or frustro-conical region of substantially un-attenuated light transmissivity corresponding to the in-path portion of the displayed field of view, and a region of perceptibly attenuated light transmissivity corresponding to the out-of-path portion of the displayed field of view.

The prior art of record fails to anticipate or make obvious the novel features.

Accordingly, if the amendments are made to the claims listed above, and if rejected claims are canceled, the application would be placed in condition for allowance.

#### Conclusion

- 7. The prior art made of record is considered pertinent to Applicant's disclosure.
- A) Sakiyama et al (2002/0128754 A1), Vehicle driving support system, and steering angle detection device.
- 8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to *Shawn S. An* whose telephone number is 571-272-7324.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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10. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

SHAWN AN PRIMARY EXAMINER